

ABSTRACTPLATELET-DERIVED GROWTH FACTOR RECEPTORS

5 DNA sequences encoding human platelet-derived growth  
factor receptors (hPDGF-R), and expression constructs  
comprising sequences which encode a receptor that can be  
secreted or incorporated into the membrane of a mammalian cell.  
Peptide fragments with functions equivalent to the wild-type  
10 receptor, conferring a PDGF-sensitive mitogenic response on  
cells lacking the receptor are provided. The constructs can be  
used for enhancing PDGF response of cells, determining the  
regions involved in transducing the signal in response to PDGF  
binding, providing mutated analogs and evaluating drugs for  
15 their physiologic activity. Soluble fragments comprising PDGF  
receptor sequences are also provided, including important  
intracellular kinase insert sequences which interact with  
intracellular proteins.